TED SCHWINDEN, GOVERNOR

MONTANA STATE LIBRARY BUILDING

STATE OF MONTANA

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18 JUNE 1986

PLANT SPECIES OF SPECIAL CONCERN

The Montana Natural Heritage Program (MTNHP) is inventorying the elements of natural diversity of Montana. The inventory includes plant species, animal species, and plant associations which are rare, endemic, disjunct, threatened, or endangered throughout their range or in Montana, vulnerable to extirpation from Montana, or in need of further research.

The attached list of 376 plant taxa of special concern in Montana represents the list which is guiding data acquisition by the MTNHP. It has been developed largely from information supplied by the Montana Rare Plant Project (University of Montana, Missoula, MT), as well as from the scientific literature and herbarium specimens. Field research will be initiated during 1986. This list is dynamic, and will be annually revised as new data become available to MTNHP.

Written comments and suggestions are welcomed on this list, particularly regarding additions or deletions, specific locational information, and general comments for the improvement of the list. After initial data are entered, MTNHP will be able to supply location information and status data for most of these taxa (estimated date: FEB87).

Plant taxa are ranked by a standardized procedure used in thirty-five other heritage programs. They are ranked on the basis of their range-wide or global rarity, and on their rarity within the specific state, using these ranking categories:

GLOBAL RANK	Definition
G 1	Critically imperiled globally because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extinction. (Critically endangered throughout range).
G2	Imperiled globally because of rarity (6 to 20 occurrences) or because of other factors demonstrably making it very vulnerable to extinction throughout its range. (Endangered throughout range).

- Either very rare and local throughout its range or found locally (even abundant at some of its locations) in a restricted range, or because of other factors making it vulnerable to extinction throughout its range; in the range of 21 to 100 occurrences. (Threatened throughout range).
- Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.
- Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.
- GU Possibly in peril range-wide, but status uncertain; more information needed.
- GH Historically known; may be rediscovered.
- GX Believed to be extinct throughout range; historical records only, continue search.

STATE

RANK Definition

- Critically imperiled in Montana because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extirpation from the state. (Critically endangered in state).
- Imperiled in Montana because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extirpation from the state. (Endangered in state).
- Rare in Montana (on the order of 20+ occurrences).

 (Threatened in state).
- S4 Apparently secure in Montana.
- 55 Demonstrably secure in Montana.
- SU Possibly in peril in Montana, but status uncertain; more information needed.
- SH Historically known in Montana; may be rediscovered.
- SX Apparently extirpated from Montana.

Other codes:

Q Taxonomic questions or problems involved; more

information needed.

T Rank for a subspecific taxon (subspecies or variety); appended to the global rank for the full species.

It should be emphasized that many of the global and state ranks are currently being revised or completed; these updated rankings will appear on revised lists beginning in Spring, 1986.

The symbols utilized in the Federal Status column denote the categories defined in the U.S. Fish and Wildlife Service Notices of Review (1980, 1983, 1985).

E	Endangered	(none	in	Montana:	
T	Threatened				

P Proposed E or T (none in Montana).

C1 Notice of Review, Category 1 (substantial biological information on file to support the appropriateness of proposing to list as endangered or threatened).

Notice of Review, Category 2 (current information indicates that proposing to list as endangered or threatened is possibly appropriate, but substantial biological information is not on file to support an immediate ruling).

C2* Category 2, and the taxon is possibly extinct.

3A Taxa for which the USFWS has persuasive evidence of extinction.

Names that, on the basis of current taxonomic understanding, do not represent taxa meeting the Endangered Species Act's definition of "species."

3C Taxa that have proven to be more abundant or widespread than was previously believed, and/or those that are not subject to any identifiable threat.

This list, as with those of other state heritage inventories, follows the standard nomenclature of Kartesz (1985, in preparation).

Selected references:

Dorn, R.D. 1984. Vascular plants of Montana. Mountain West Publishing, Cheyenne, WY. 276 pp.

Federal Register, 1980. Endangered and threatened wildlife and plants: Review of plant taxa for listing as endangered or threatened species. 45(242): 82480-82569. 15 December 1980.

Federal Register, 1983. Endangered and threatened wildlife and plants: Supplement to review of plant taxa for listing; proposed rule. 48(227): 53640-53670. 28 November 1983.

Federal Register, 1985. Endangered and threatened wildlife and plants: Review of plant taxa for listing as endangered or

threatened species; Notice of review. 50(188): 39525-39584. 27 September 1985.

Kartesz, J.T. 1985. Vascular plant checklist (draft revised). In preparation.

Lesica, P., G. Moore, K.M. Peterson, and J.H. Rumely (Montana Rare Plant Project). 1984. Vascular plants of limited distribution in Montana. Vol. 43, Monograph No. 2, Montana Academy of Sciences, Supplement to the Proceedings. 61 pp.

ACHILLEA SIBIRICA ADOXA MOSCHATELLINA AGASTACHE CUSICKII AGASTACHE FOENICULUM AGOSERIS SP 1 AGROSTIS MERTENSII ALLIUM ACUMINATUM ALLIUM FIBRILLUM ALLIUM PARVUM ALLIUM SIMILLIMUM ALLIUM SIMILLIMUM ALLOTROPA VIRGATA AMARANTHUS CALIFORNICUS AMBROSIA TOMENTOSA AMERORCHIS ROTUNDIFOLIA AMMANNIA COCCINEA AMORPHA CANESCENS ANTENNARIA AROMATICA	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
ACHILLEA SIRIRICA	PNASTARAKA	ASTERACEAE	67	S 1	
ADDYA MOSCHATELLINA	Phannaigia	ADDYACEAE	65	S1	
AGASTACHE CUSICKII	PDI ANGRES	LANIACEAE	6364	S1	3C
AGASTACHE FRENTCULUM	PDI AMG3646	LANTACEAE	6?	SU	
AGOSERIS SP 1	PDASTAGYIA	ASTERACEAE	6?	SI	
AGROSTIS MERTENSII	PMPDAG4GTG	PRACEAE	65	Si	
ALLIUM ACUNINATUM	PHI 11 62626	LILIACEAE	6465	SI	
ALLIUM FIBRILLUM	PHLILØ2010	LILIACEAE	6?	51	
ALLIUM PARVUM	PMLILØ21PØ	LILIACEAE	6?	Si	
ALLIUM SIMILLIMUM	PHLILØ227Ø	LILIACEAE	6?	S1S2	
ALLOTROPA VIRGATA	PDER101010	ERICACEAE	64	Si	
AMARANTHUS CALIFORNICUS	PDAMA@4@A@	ANARANTHACEAE	6?	SI	
AMBROSIA TOMENTOSA	PDASTØCØPØ	ASTERACEAE	6?	SU	
AMERORCHIS ROTUNDIFOLIA	PHORCØ1010	ORCHIDACEAE	65	Si	
AMMANNIA COCCINEA	PDLYT01020	LYTHRACEAE	6?	S1	
AMORPHA CANESCENS	PDFABØ8020	FABACEAE	65	SISX	
ANTENNARIA AROMATICA	PDASTØHØVØ	ASTERACEAE	6263	52	CS
ANTENNARIA PLANTAGINIFOLIA	PDASTØHØJØ	ASTERACEAE	65	SU	
ANTENNARIA PULCHERRIMA	PDASTØHØLØ	ASTERACEAE	6?	51	
AQUILEGIA BREVISTYLA	PDRANØ502Ø	RANUNCULACEAE	65	S1	
AQUILEGIA FORMOSA	PDRANØ5ØBØ	RANUNCULACEAE	6?	Si	
AQUILEGIA JONESII	PDRANØ5ØDØ	RANUNCULACEAE	6365	53	30
ARABIS FECUNDA	PDBRA@629@	BRASSICACEAE	61	Si	
ARABIS LIGNIFERA	PDBRAØ612Ø	BRASSICACEAE	6?	S1	
AMBROSIA TOMENTOSA AMERORCHIS ROTUNDIFOLIA AMMANNIA COCCINEA AMORPHA CANESCENS ANTENNARIA AROMATICA ANTENNARIA PLANTAGINIFOLIA ANTENNARIA PULCHERRIMA AQUILEGIA BREVISTYLA AQUILEGIA FORNOSA AQUILEGIA JONESII ARABIS FECUNDA ARABIS LIGNIFERA ARCTOSTAPHYLOS PATULA AREMARIA KINGII ARTEMISIA NORVEGICA VAR SAXATILIS ARTEMISIA PEDATIFIDA ARTEMISIA SPINESCENS ASCLEPIAS STENOPHYLLA ASPLENIUM TRICHOMANES ASTRAGALUS ARETIGIDES ASTRAGALUS ARGOPHYLLUS VAR ARGOPHYLLUS ASTRAGALUS BARRII	PDER104130	ERICACEAE	6?	SI	
ARENARIA KINGII	PDCARØ4ØDØ	CARYOPHYLLACEAE	6?	SU	
ARTEMISIA NORVEGICA VAR SAXATILIS	PDAST@S@71	ASTERACEAE	6?	SI	
ARTEMISIA PEDATIFIDA	PDASTØS1AØ	ASTERACEAE	G?	S2	
ARTEMISIA SPINESCENS	PDAST@S1M@	ASTERACEAE	6?	S2	
ASCLEPIAS STENOPHYLLA	PDASC#21U#	ASCLEPIADACEAE	6365	Si	
ASPLENIUM TRICHDMANES	PPASPØ21KØ	ASPLENIACEAE	65	Si	
ASTER FRONDOSUS	PDASTØT16Ø	ASTERACEAE	6?	SU	
ASTRAGALUS ARETIOIDES	PDFABØFØRØ	FABACEAE	64	S2	
ASTRAGALUS ARGOPHYLLUS VAR ARGOPHYLLUS	PDFABØFØS1	FABACEAE	6?	S1	
ASTRAGALUS BARRII	PDFABØF15Ø	FABACEAE	6263	SI	C5
ASTRAGALUS CERAMICUS VAR APUS	PDFAB@F1V1	FABACEAE	6413	SI	30
ASTRAGALUS CHAMAELEUCE	PDFAB@F1X@	FABACEAE	65	SI	
ASTRAGALUS CONVALLARIUS	PDFABØF2DØ	FABACEAE	65	Si	
ASTRAGALUS GEYERI	PDFAB@F3M@	FABACEAE	65	Si	
ASTRAGALUS GRAYI	PDFAB@F3VØ	FABACEAE	6?	SI	
ASTRAGALUS HYALINUS	PDFABØF46Ø	FABACEAE	63	52	
ASTRAGALUS LENTIGINOSUS VAR SALINUS	PDFABØF4QR	FABACEAE	6?	S 1	
ASTRAGALUS LEPTALEUS	PDFABØF4PØ	FABACEAE	64	SUSI	
ASTRAGALUS MOLYBDENUS	PDFAB@F5he		6?	SI	
ASTRAGALUS DREGANUS	PDFABØF6DØ			S1	
ASTRAGALUS PLATTENSIS	PDFABØF6WØ		64	5253	
ASTRAGALUS PLATYTROPIS	PDFAB@F6X@		6?	SU	
	PDFABØF7C1		6?	SU	
ASTRAGALUS SCAPHOIDES	PDFABØF7VØ	Land the state of	62	S1	C5
ASTRAGALUS TERMINALIS	PDFAB@F8U@	FABACEAE	6364	S 2	

STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
•					
ATHYSANUS PUSILLUS	PNRPAGRAIA	BBACCICACEAE	E2	SI	
BACOPA ROTUNDIFOLIA	PRECEATARA	BRASSIÇACEAE SCROPHULARIACEAE	65	S1	
BALSAMORHIZA MACROPHYLLA		ASTERACEAE	6365		
BIDENS TRIPARTITA		ASTERACEAE			
BIDENS VULGATA VAR SCHIZANTHA		ASTERACEAE			
BOTRYCHIUM CRENULATUM	PPOPURIALA	OPHIOGLOSSACEAE	61630		C2
BOTRYCHIUM HESPERIUM	PPOPHATADA	OPHIO6LOSSACEAE	6264	SU	CL
	PPOPHATARA	OPHIOGLOSSACEAE	6364	Si	
BOTRYCHIUM MINGANENSE BOTRYCHIUM MONTANUM		OPHIOGLOSSACEAE		S2	
BOTRYCHIUM PARADOXUM		OPHIOGLOSSACEAE		S1	C2
		NYMPHAEACEAE			DL
BULBOSTYLIS CAPILLARIS	PHCVPG2G2G	CYPERACEAE	65	51	
CALAMAGROSTIS THEEDYI	PMP0A17156	POACEAE	6264	S1	CS
CAMISSONIA ANDINA	PDONAGRATA	ONAGRACEAE	64	SI	UL.
CAMISSONIA MINOR	PDOMAGRITA	ONAGRACEAE	67	S1	
CAMISSONIA SCAPOIDEA SSP BRACHYCARPA	PDUNAGRICI	ONAGRACEAE	67	Si	
CARDAMINE RUPICOLA	PDRRAGK136	BRASSICACEAE	6264		30
CAREX AMPLIFOLIA	PHCYPGRANG	CYPERACEAE	67	Si	00
CAREX CHORDGRRHIZA	PHCYPG32IIG	CYPERACEAE	65	S1	
CAREX COMOSA	PHC YPG32YG	CYPERACEAE	65	Si	
CAREX CRAWEI	PNCYPGRRAM	CYPERACEAE	65	SI	
CAREX EURYCARPA	PMCYP634F6	CYPERACEAE	67	S1?	
CAREX GRAVIDA VAR GRAVIDA	PMCYPG3561	CYPERACEAE	67	S1S2	
CAREX IDAHDA	PHCYPG34FG	CYPERACEAE	630	SI	30
CAREX INCURVIFORMIS VAR DANAENSIS	PMCYP#3A61	CYPERACEAE	67	SI	OD.
CAREX LENTICULARIS VAR DOLIA	PHCYPG3743	CYPERACEAE	65T2	SI	CS
CAREX LIVIDA		CYPERACEAE		S1	-
CAREX MICROGLOCHIN	PHCVP038K0	CYPERACEAE	65?	SU	
CAREX MISANDRA	PNCYPØ38NØ	CYPERACEAE	6?	S2	
CAREX MULTICOSTATA	PHCYP@38Y@	CYPERACEAE	67	51	
	PNCYP#39H#	CYPERACEAE	6?	SU	
CAREX PAUPERCULA	PHCYPØ3A7Ø	CYPERACEAE	65	S1S3	
CAREX PETRICOSA		CYPERACEAE		SI	
CAREX SCOPARIA		CYPERACEAE	65	S2?	
CAREX STENOPTILA		CYPERACEAE	6?	SU	
CAREX SYCHNOCEPHALA		CYPERACEAE	6365	51	
CAREX TINCTA		CYPERACEAE	6465	SU	
CAREX TORREYI		CYPERACEAE	6365	S1	
CAREX VALLICOLA		CYPERACEAE	6?	SU	
CASTILLEJA ANGUSTIFOLIA		SCROPHULARIACEAE	6365	5152?	
CASTILLEJA COVILLEANA	PDSCRØDØKØ	SCROPHULARIACEAE	6?	S1	
CASTILLEJA EXILIS	PDSCRØDØNØ	SCROPHULARIACEAE	6?	SU	
CASTILLEJA GRACILLIMA	PDSCRØD150	SCROPHULARIACEAE	6?	SU	
CASTILLEJA LONGISPICA	PDSCRØD1WØ	SCROPHULARIACEAE	6?	SU	
CASTILLEJA OCCIDENTALIS		SCROPHULARIACEAE	6?	S2	
CASTILLEJA RUSTICA	PDSCRØD2VØ	SCROPHULARIACEAE	6?	SU	
CEANOTHUS HERBACEUS	PDRHAØ4ØKØ	RHANNACEAE	65	SISH	
CELASTRUS SCANDENS	PDCELØ3Ø2Ø	CELASTRACEAE	65	SI	
CENTAURIUM EXALTATUM	PD6EN02060	GENTIANACEAE	65	SISX	
CENTUNCULUS MINIMUS	PDPR101020	PRIMULACEAE	65	S1	

STATE NAME	ELCORT	FAMILY	GRANK	SRANK	FEDSTATUS
CERCOCARPUS MONTANUS VAR GLABER	PDR0508023	ROSACEAE	6?	SI	
CHAMAESYCE GEYERI	PDEUPØDØYØ	EUPHORBIACEAE	64	S1	
CHRYSOSPLENIUM TETRANDRUM	PDSAX97050	SAXIFRAGACEAE	6?	SI	
CHRYSOTHAMNUS LINIFOLIUS	PDAST2CØ5Ø	ASTERACEAE	6?	SISH	
CIRSIUM BREVISTYLUM	PDAST2EØBØ	ASTERACEAE	6?	S1	
CIRSIUM LONGISTYLUM	PDAST2E1PØ	ASTERACEAE	658	S20	
CIRSIUM SUBNIVEUM	PDAST2E2SØ	ASTERACEAE	6?	SI	
CLARKIA RHOMBOIDEA	PDONAØ5ØXØ	DNAGRACEAE	6?	Si	
CLAYTONIA LANCEOLATA VAR FLAVA	PDP0RØ3Ø92	PORTULACACEAE	65T1	S10	CS
CLEOME LUTEA	PDCPP63676	CAPPARACEAE	6?	S1	
CONIOSELINUM SCOPULORUM	PDAPI@PØ40	APIACEAE	6?	51	
CORDYLANTHUS CAPITATUS	PDSCRØJØ3Ø	SCROPHULARIACEAE	6?	S1	
CORDYLANTHUS RAMOSUS	PDSCRØJØNØ	SCROPHULARIACEAE	6365	S2	
CORYDALIS SEMPERVIRENS	PDPAPØ7ØBØ	PAPAVERACEAE	6465	\$152	
CRYPTANTHA CANA	PDBOR#A#D#	BORAGINACEAE	63	53	
CRYPTANTHA FENDLERI	PDBORØAØXØ	BORAGINACEAE	6?	S1	
CRYPTANTHA FLAVOCULATA	PDBORGA166	BORAGINACEAE	65	Si	
CRYPTANTHA HUHILIS	PDBORGA1A6	BORAGINACEAE	6?	51?	
CRYPTANTHA SOBOLIFERA	PDBOR@A2X@	BORAGINACEAE	6264	Si	3C
CRYPTANTHA SPICULIFERA	PDBOR#A2Z#	BORAGINACEAE	6?	SU	
CUSCUTA PENTAGONA	PDCONØ714Ø	CONVOLVULACEAE	65	SISU	
CYMOPTERUS SP. NOV.	PDAPIGUX16	APIACEAE	6?	Si	
CYPERUS ACUMINATUS	PMCYPØ6919	CYPERACEAE	6365	51	
CYPERUS ERYTHRORHIZOS	PMCYPØ6ØZØ	CYPERACEAE	65	SU	
CYPERUS RIVULARIS	PMCYPØ632Ø	CYPERACEAE	65	Si	
CYPERUS SCHWEINITZII	PMCYPØ636Ø	CYPERACEAE	65	S1	
CYPRIPEDIUM FASCICULATUM	PMORC#Q#6#	ORCHIDACEAE	64	S1	30
CYPRIPEDIUM PARVIFLORUM	PMORC@Q@9@	ORCHIDACEAE	65?	52	
CYPRIPEDIUM PASSERINUM	PHORC@Q@A@	ORCHIDACEAE	6465	S1	
CYSTOPTERIS MONTANA	PPASP98959	ASPLENIACEAE	65	SISU	
DALEA VILLOSA VAR VILLOSA	PDFAB1A102		6?	S1	
DELPHINIUM ANDERSONII	PDRANGB030	RANUNCULACEAE	6?	SU	
DELPHINIUM BURKEI	PDRANGB696	RANUNCULACEAE	6?	S1	
DELPHINIUM WOOTONII	PDRANØBØLØ	RANUNCULACEAE	6?	SU	
DICHANTHELIUM OLIGOSANTHES	PMPOA249Q9		65?	SISX	
DRABA APICULATA		BRASSICACEAE	6465	51	
DRABA BRACHYCARPA		BRASSICACEAE	6465	SI	
DRABA DAVIESIAE		BRASSICACEAE	65	S2	
DRABA FLADNIZENSIS		BRASSICACEAE	6?	51	
DRABA MACDUNII		BRASSICACEAE	6?	Si	
DRABA PORSILDII		BRASSICACEAE	6?	SI	
DRABA VENTOSA		BRASSICACEAE	65	SI	
DROSERA LINEARIS		DROSERACEAE	64	Si	
DRYAS INTEGRIFOLIA	PDROSØLØ2Ø		65?	S1	
DRYOPTERIS CRISTATA		ASPLENIACEAE	65	SI	
ELATINE CALIFORNICA		ELATINACEAE	6?	SI	
ELODEA LONGIVAGINATA	PMHYDØ3Ø6Ø	HYDROCHARITACEAE	6?	S1	
ELODEA NUTTALLII	PMHYD#3#8#	HYDROCHARITACEAE	65	S2	
EPIPACTIS GIGANTEA		ORCHIDACEAE	64	Si	
ERIGERON ALLOCOTUS	PDAST3MØ5Ø	ASTERACEAE	6264	S2	3C

STA	ATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
ER	IGERON ASPERUGINEUS	PDAST3MØDØ	ASTERACEAE	64	Si	
ER!	GERON BELLIDIASTRUM	PDAST3MØJØ	ASTERACEAE	6?	SU	
ER:	IGERON COULTERI	PDAST3M166	ASTERACEAE	6?	\$152	
ER!	GERON EATONII SSP EATONII	PDAST3h171	ASTERACEAE	6?	S1?	
ER:	IGERON EVERMANNII	PDAST3M1BØ	ASTERACEAE	6465	52	
ER!	GERON FLABELLIFOLIUS	PDAST3M1E#	ASTERACEAE	6?	S2	
ER:	IGERON FLAGELLARIS	PDAST3M1F@	ASTERACEAE	6?	SI	
ER!	GERON FORMOSISSIMUS VAR VISCIDUS	PDAST3M1K2	ASTERACEAE	6?	S1	
ER:	IGERON GRACILIS	PDAST3M1RØ	ASTERACEAE	64	SI	
ER!	GERON LACKSCHEWITZII	PDAST3M4FØ	ASTERACEAE	610	S19	
ER:	IGERON LANATUS	PDAST3M25Ø	ASTERACEAE	64	52	
ER!	GERON LINEARIS	PDAST3M2BØ	ASTERACEAE	6?	SU	
ER:			POLYGONACEAE	6HD	S2	CS
ER]	OGONUM LAGOPUS	PDPGNØ83EØ	POLYGONACEAE	6163	S19	C5
ER:	IOGONUM PYROLIFOLIUM VAR CORYPHAEUM	PDPGN984Z1	POLYGONACEAE	6?	S 2	
ER!	LOGONUM UMBELLATUM VAR STELLATUM	DDDBN@895K	POLYGONACEAE	6?	SU	
ER:	IOPHORUM ALPINUM	PMCYPØAØ1Ø	CYPERACEAE	65	SI	
ERI	OPHORUM VIRIDICARINATUM	PHCYPGAGEG	CYPERACEAE	65	51	
ER	THRONIUM GRANDIFLORUM SSP CANDIDUM	PHLILØUØ51	LILIACEAE	6?	S2	
EUF	ATORIUM MACULATUM VAR BRUNERI	PDAST3P141	ASTERACEAE	65TU	Si	
EU	PATORIUM OCCIDENTALE	PDAST3P18Ø	ASTERACEAE	6?	S1	
EUF	PHRASIA DISJUNCTA	PDSCR@P@3@	SCROPHULARIACEAE	65	SI	
FES	STUCA VIVIPARA	PN	POACEAE	60	S10	N
GEN	ITIANA AQUATICA	PDGENØ6Ø5Ø	GENTIANACEAE	6?	SI	
6E)	NTIANA GLAUCA	PDGENØ6ØEØ	GENTIANACEAE	6?	SI	
GEN	ITIANELLA PROPINQUA		GENTIANACEAE	64	5152	
GEI	NTIANELLA TENELLA	PDGENØ7Ø7Ø	GENTIANACEAE	64	S2	3 . 2
			GENTIANACEAE	6364	SU	
	CAULON LIVIDUM		SANTALACEAE	64	S1	
		PDROSØSØE2		6465T		
	IA LEPTOMERIA VAR LEPTOMERIA		POLEMONIACEAE	6?T?	52?	
			POLEMONIACEAE	64650		
	ANDULARIA BIPINNATIFIDA		VERBENACEAE	6?	SU	
600	IDYERA REPENS		ORCHIDACEAE	65	51	
	AYIA SPINOSA		CHENOPODIACEAE	6?	SU	
	INDELIA HOWELLII		ASTERACEAE	62	S2	C5
	LENIA DEFLEXA SSP DEFLEXA		GENTIANACEAE	65TU	SI	
			ASTERACEAE	6365	S1	
	PLOPAPPUS MULTICAULIS		ASTERACEAE	64	S1	
			ASTERACEAE	6?	51	
5.51	PLOPAPPUS PYGNAEUS		ASTERACEAE	6?	Si	
		PDFAB1Z#1#		65	SU	
	IICARPHA DRUMMONDII		CYPERACEAE	6?	SU	
			CAMPANULACEAE	6?	S1	
	WELLIA AQUATILIS		CAMPANULACEAE	61	SI	C5
			ASTERACEAE		SU	30
	MENOPAPPUS FILIFOLIUS VAR LUTEUS		ASTERACEAE	6?	SU	
	RENOPAPPUS TENUIFOLIUS		ASTERACEAE	6?	SU	
	AHOA SCAPIGERA		BRASSICACEAE	6?	S1	
IP(DMOPSIS CONGESTA SSP CREBRIFOLIA	LDLF409035	POLEHONIACEAE	6?	S1	

STATE NAME	ELCODE FAMILY	GRANK	SRANK	FE05TATUS
IPOMOPSIS PUMILA JUNCUS ACUMINATUS JUNCUS ALBESCENS JUNCUS BIGLUMIS JUNCUS CASTANEUS JUNCUS COVILLEI VAR OBTUSATUS JUNCUS HALLII JUNCUS TRIGLUMIS JUNIPERUS OSTEOSPERMA KELLOGGIA GALIOIDES KELSEYA UNIFLORA KOBRESIA SIBIRICA	PDPLM060E0 POLEMONIACEAE	67	C1	
TUNCUS ACUMINATUS	PHILINGIASA TUNCACEAE	65	S1	
THURING AN RECYFUS	DMTHMG1616 THUCACEAE	E2	S1	
THACHE DIELIMIE	PHINGIPPS JUNCACEAE	G:	S2	
JUNCUS DIBLORIS	PRICED DONCHLEME	6?	20	
THACHE COULLET HAD OBTHEATHE	LUZONATALA TONCACCAC	D:	SI	
JUNCUS COVILLEI YHR UBIUSHIUS	FRJUNGISVE JUNCACEAE	. 0:	D1	
JUNCUS TATCH UNIC	PRIMATILE JUNCACEAE	6?	S1	
JUNIOUS INIGEOUSE	PRIUNDICZW JUNCACEAE	p:	בני 1	
JURIPERUS USIEUSPERNH	PROUPLING OF COLKESSACERE	6:	SU	
KELLUDDIA DALIUIDES	PDROBLEGIO RUBIALEAE	b!	51	
KELSEYA UNIFLUKA	PURUSUTUIU RUSALEAE	6?	5054	
WELLER OF THE SECOND OF THE SE	BURNESS BURNESS			
KOBRESIA SIMPLICIUSCULA KOCHIA AMERICANA	PACYPOFO30 CYPERACEAE	65	51	
KOCHIA AMERICANA	PDCHEGEG16 CHENOPODIACEAE	6?	51	
KOENIGIA ISLANDICA	PDPGN#D#1# POLYGONACEAE	64	S2	
LATHYRUS BIJUGATUS	PDFAB25040 FABACEAE	6?	Si	
LEPIDIUM MONTANUM VAR MONTANUM	PDBRAIMØLA BRASSICACEAE	6?	Si	
LEPTODACTYLON CAESPITOSUM	PDPLHØ8Ø1Ø POLEMONIACEAE	6?	51	
LESQUERELLA CARINATA	PDBRA1NØBØ BRASSICACEAE	6264	Si	3C
LESQUERELLA HUMILIS	PDBRAINIYØ BRASSICACEAE	61	S1	
LESQUERELLA KLAUSII	PDBRAIN1ZØ BRASSICACEAE	61	SI	
LESQUERELLA OCCIDENTALIS	PDBRA1N17Ø BRASSICACEAE	6?	Si	
LEWISIA COLUMBIANA VAR WALLOWENSIS	PDPORØ4Ø33 PORTULACACEAE	6474	SI	3C
KOCHIA AMERICANA KOCHIA AMERICANA KOENIGIA ISLANDICA LATHYRUS BIJUGATUS LEPIDIUM MONTANUM VAR MONTANUM LEPTODACTYLON CAESPITOSUM LESQUERELLA CARINATA LESQUERELLA HUMILIS LESQUERELLA KLAUSII LESQUERELLA OCCIDENTALIS LEWISIA COLUMBIANA VAR WALLOWENSIS LEYMUS FLAVESCENS LEYMUS INNOVATUS LIGUSTICUM FILICINUM LIGUSTICUM VERTICILLATUM LILAEA SCILLOIDES	PMPDA2HØ7Ø POACEAE	64	S1	
LEYHUS INNOVATUS	PMPDAZHØAØ PDACEAE	6?	S1	
LIGUSTICUM FILICINUM	PDAPI18969 APIACEAE	6?	SI	
LIGUSTICUM PORTERI	PDAPI18989 APIACEAE	6465	SI	
LIGUSTICUM VERTICILLATUM	PDAPI18ØBØ APIACEAE	6465	5253	- 9
LILAEA SCILLOIDES	PMSCH01010 SCHEUCHZERIACEAE	6?	S 1	
LILIUM COLUMBIANUM	PHLIL1AØ5Ø LILIACEAE	6?	S1	
	PDPLMØ9ØV1 POLEMONIACEAE			
LINARIA TEXANA	PDSCR11000 SCROPHULARIACEAE	6465	SI	
LOBELIA SPICATA	PDSCRII000 SCRUPHULARIACEAE PDCAM0E190 CAMPANULACEAE PDAPI10021 APIACEAE	65	S1	
LOMATIUM BICOLOR VAR BICOLOR	PDAPI1B021 APIACEAE	6?	S2	
LOMATIUM GEYERI	PDAPIIBØNØ APIACEAE	G?	S1	
LYCOPODIUM ALPINUM	PPLYC01020 LYCOPODIACEAE	6?	S1S2	
LYCOPODIUM OBSCURUM	PPLYC010P0 LYCOPODIACEAE	65	SU	
MACHAERANTHERA COMMIXTA	PDAST64ØDØ ASTERACEAE	6?	SU	
MADIA MINIMA	PDAST650C0 ASTERACEAE	6?	SU	
MAIANTHEMUM CANADENSE VAR INTERIUS	PMLIL1DØ12 LILIACEAE	65?TU	SISH	
MALACOTHRIX SONCHOIDES VAR TORREYI	PDAST660E2 ASTERACEAE	6?	SI	
MENTZELIA MONTANA	PDLOAØ311Ø LOASACEAE	64	SU	
MENTZELIA NUDA	PDLOAØ315Ø LOASACEAE	6?	SU	
MENTZELIA PUNILA	PDLOAØ316Ø LOASACEAE	6?	S1	
MERTENSIA BELLA	PDBORØNØ4Ø BORAGINACEAE	64	SI	
MINULUS GLABRATUS	PDSCR1B1AØ SCROPHULARIACEAE	65	SU	
MINULUS NANUS	PDSCR1B1Y# SCROPHULARIACEAE	6?	\$1\$2	
MINULUS PRINULOIDES	PDSCR1B27# SCROPHULARIACEAE	6?	SI	
MIRABILIS HIRSUTA	PDNYCØAØPØ NYCTAGINACEAE	6?	S1	
NUHLENBERGIA ANDINA	PMP0A48010 POACEAE	64	S2	

STATE NAME	ELCODE	,	GRANK	SRANK	FEDSTATUS
MUHLENBERGIA MINUTISSIMA MYOSOTIS VERNA NAJAS GUADALUPENSIS NYMPHAEA TETRAGONA OENOTHERA PALLIDA VAR IDAHOENSIS OPHIOGLOSSUM VULGATUM OROBANCHE CORYMBOSA OROGENIA LINEARIFOLIA OXYTROPIS COLUMBIANA OXYTROPIS LAGOPUS VAR CONTUGENS	PMP0A4813Ø	POACEAE	64	S1	
MYDSDTIS VERNA	PDBORØPØDØ	BORAGINACEAE	6?	SU	
NAJAS GUADALUPENSIS	PMNAJØ1050	NAJADACEAE	65	SI	
NYMPHAEA TETRAGONA	PDNYMØ5ØBØ	NYMPHAEACEAE	65	SI	
GENOTHERA PALLIDA VAR IDAHOENSIS	PDONA@C@Y2	ONAGRACEAE	64T4Q	S10	
OPHIOGLOSSUM VULGATUM	PPOPH#29B#	OPHIOGLOSSACEAE	65	S1	
OROBANCHE CORYMBOSA	PDOR094949	OROBANCHACEAE	6?	SI	
OROGENIA LINEARIFOLIA	PDAPI1J#2#	APIACEAE	6?	SI	
DXYTROPIS COLUMBIANA	PDFAB2XØSØ	FABACEAE	6?	S10	
OXYTROPIS LAGOPUS VAR CONJUGENS	PDFAB2XØA2	FABACEAE	6?	SU	
OXYTROPIS PODOCARPA PAPAVER ALPINUM PAPAVER LAPPONICUM PEDICULARIS CONTORTA VAR CTENOPHORA PEDICULARIS CONTORTA VAR RUBICUNDA PEDICULARIS OEDERI	PDFAB2XØKØ	FABACEAE	6?	Si	
PAPAVER ALPINUM	PDPAPØHØ2Ø	PAPAVERACEAE	65	S2	
PAPAVER LAPPONICUM	PDPAP#H#8#	PAPAVERACEAE	64	SI	
PEDICULARIS CONTORTA VAR CTENOPHORA	PDSCR1KØ92	SCROPHULARIACEAE	6?	SU	
PEDICULARIS CONTORTA VAR RUBICUNDA	PDSCR1KØ93	SCROPHULARIACEAE	6?7?	Si	
PEDICULARIS OEDERI	PDSCR1KØRØ	SCROPHULARIACEAE	6?	S2	
PENSTEMON ATTENUATUS VAR MILITARIS	PDSCR1LØH2	SCROPHULARIACEAE	64T4	SI	
PENSTENON CARYI	PDSCR1L18€	SCROPHULARIACEAE	6263	S2	30
PENSTENON FLAVESCENS	PDSCR1L2B@	SCROPHULARIACEAE	6?	S2	
PENSTEMON LARICIFOLIUS	PDSCR1L3JØ	SCROPHULARIACEAE	64	52	
PENSTEMON LEMHIENSIS	PDSCR1L3NØ	SCROPHULARIACEAE	63	S2	CS
PENSTEMON PAYETTENSIS	PDSCR1L4T@	SCROPHULARIACEAE	64	S1	
PENSTEMON WHIPPLEANUS	PDSCR1L6PØ	SCROPHULARIACEAE	65	51	
PHACELIA INCANA	PDHYDØC27Ø	HYDROPHYLLACEAE	6364	S1	
PHACELIA IVESIANA	PDHYD@C26@	HYDROPHYLLACEAE	6?	S1	
PHACELIA THERMALIS	PDHYDØC4LØ	HYDROPHYLLACEAE	6?	S1	
PHIPPSIA ALGIDA	PMPOA4TØ16		65	SI	3C
PHLOX ANDICOLA	PDPLMØDØ8Ø	POLEMONIACEAE	6?	SU	
	PDPLMØD19Ø	POLEMONIACEAE	620	S2Q	3C
PHYSALIS HEDERAEFOLIA	PDSOLØSØDØ	SOLANACEAE	65?	SU	
PHYSALIS PUMILA	PDSOLØSØKØ	SOLANACEAE BRASSICACEAE BRASSICACEAE ROSACEAE	6?	SU	
PHYSARIA ACUTIFOLIA	PDBRA22016	BRASSICACEAE	6465	52	
PHYSARIA SAXIMONTANA VAR DENTATA	PDBRA22@L1	BRASSICACEAE	6?1?	S1	
I II OSSIII. OS II ONOS I NOS	1 BIIDGI ID ID	HOUNDENE	64	SU	
PINGUICULA VULGARIS		LENTIBULARIACEAE		S2	
PLAGIOBOTHRYS LEPTOCLADUS		BORAGINACEAE	6?	51	
PLATYSCHKUHRIA INTEGRIFOLIA VAR INTEGRIFOLIA		ASTERACEAE	6?	S2	
POLYGONUM DOUGLASII VAR AUSTINAE	PDPGNØLØX1	POLYGONACEAE	6465TU		
POLYSTICHUM KRUCKEBERGII		ASPLENIACEAE	65	SI	30
POLYSTICHUM SCOPULINUM		ASPLENIACEAE	6?	SU	
POTAHOGETON OBTUSIFOLIUS		POTAMOGETONACEAE		S1S2	
POTENTILLA BREVIFOLIA	PDROS1BØBØ		6?	S1	
POTENTILLA UNIFLORA	PDROS1828@	ROSACEAE	6?	SI	
PRINULA ALCALINA .		PRIMULACEAE	61?	SISH	
PSEUDOSTELLARIA JAMESIANA PSILOCARPHUS BREVISSIMUS VAR BREVISSIMUS		CARYOPHYLLACEAE		SU	
		ASTERACEAE	6?	Si	
PSORALEA HYPOGAEA	PDFAB3BØFØ		6?	S1	
PTERYXIA HENDERSONII		APIACEAE		S2SU	
PTERYXIA TEREBINTHINA VAR CALCAREA		APIACEAE	6?	SU	
QUERCUS MACROCARPA	PDFAG05190	FA6ACEAE	65	S1?	

STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
RANUNCULUS CARDIOPHYLLUS	PDRANGLØKØ	RANUNCULACEAE	6?	Si	
RANUNCULUS GELIDUS	PDRANGLØYØ	RANUNCULACEAE	64	S1	
RANUNCULUS JOVIS		RANUNCULACEAE	6?	Si	
RORIPPA CALYCINA		BRASSICACEAE	62	S2	CS
RUBUS URSINUS	PDROS1K7XØ	RUSACEAE	6?	52	
SAGINA NIVALIS	PDCAR@P@7@	CARYOPHYLLACEAE	6?	Si	
SALIX BARRATTIANA	PDSALØ2ØDØ	SALICACEAE	6?	51	
SALIX SERISSIMA	PDSALØ22PØ	SALICACEAE	64	SI	
SALIX WOLFII VAR WOLFII	PDSALØ2341	SALICACEAE	6365T?	S1	
SATUREJA DOUGLASII	PDLAM1T#2#	LAMIACEAE	6?	S1?	
SAUSSUREA NUDA VAR DENSA	PDAST8BØ51	ASTERACEAE	6365TU	SI	
SAUSSUREA WEBERI	PDASTBB060	ASTERACEAE	64	S1	30
SAXIFRAGA APETALA	PDSAXØU22Ø	SAXIFRAGACEAE	6?	S2	
SAXIFRAGA CHRYSANTHA	PDSAXØUØDØ	SAXIFRAGACEAE	6?	Si	
SAXIFRAGA TEMPESTIVA	PDSAX@U1R@	SAXIFRAGACEAE	62	52	
SAXIFRAGA TOLMIEI VAR LEDIFOLIA		SAXIFRAGACEAE	6575	S2	
SCIRPUS CYPERINUS	PMCYPØQGFØ	CYPERACEAE	65	Si	
SCIRPUS HETEROCHAETUS	PHCYPGQGTG	CYPERACEAE	65	S 3	
SCIRPUS NEVADENSIS	PMCYP@Q13@	CYPERACEAE	64	S1S2	
SCIRPUS SUBTERMINALIS	PHCYP@Q160	CYPERACEAE	6465	SI	
SEDUM DEBILE	PDCRAØAØ9Ø	CRASSULACEAE	6465	S1	
SELAGINELLA SELAGINOIDES	PPSELØ111Ø	SELAGINELLACEAE	65	Si	
SELAGINELLA WATSONII	PPSELØ11DØ	SELAGINELLACEAE	6465	S1	
SENECIO AMPLECTENS VAR HOLMII	PDAST8HØ22	ASTERACEAE	6?	SI	
SENECIO DEBILIS	PDAST8H11Ø	ASTERACEAE	6365	SI	
SENECIO FUSCATUS	PDASTBH1E#	ASTERACEAE	6?	S2	
SENECIO PAUCIFLORUS	PDAST8H2DØ	ASTERACEAE	6465	S1	
SHOSHONEA PULVINATA	PDAP126010		61	S1	C5
SILENE SPALDINGII		CARYOPHYLLACEAE		SI	C5
SOLIDAGO PTARMICOIDES		ASTERACEAE		S1	
SOLIDAGO SPARSIFLORA		ASTERACEAE		SU	
SPHAERALCEA MUNROANA	PDMAL140F0			S1	
SPHAEROMERIA CAPITATA		ASTERACEAE	6364	S2	
SPHENOPHOLIS OBTUSATA VAR MAJOR	PMPOA5TØ31		6?	S2	
SPOROBOLUS NEGLECTUS	PMPOA5VØLØ		_	SU	
SPOROBOLUS VAGINIFLORUS	PMP0A5VØXØ			SU	
STANLEYA TOMENTOSA		BRASSICACEAE		S1	
STANLEYA VIRIDIFLORA		BRASSICACEAE CARYOPHYLLACEAE		S1	
STELLARIA SIMCOEI STEPHANOMERIA SPINOSA				S10	
STIPA LETTERMANII	PMPOA5X6H6	ASTERACEAE		S2 SU	•,
STIPA THURBERIANA	PHPOA5X126			SU	
STREPTANTHELLA LONGIROSTRIS		BRASSICACEAE		Si	
SULLIVANTIA HAPEMANII		SAXIFRAGACEAE		S1	30
SYNTHYRIS CANBYI		SCROPHULARIACEAE		25	3C
SYNTHYRIS MISSURICA		SCROPHULARIACEAE		5E 51	Ju
TARAXACUM ERIOPHORUM		ASTERACEAE		S1	
TETRANEURIS TORREYANA		ASTERACEAE		51	
THELYPODIUM PANICULATUM		BRASSICACEAE		Si	
THELYPODIUM SAGITTATUM SSP SAGITTATUM		BRASSICACEAE		SU	
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STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
THELYPTERIS PHEGOPTERIS	PPACPAYISA	ASPLENIACEAE	65	Si	
THLASPI PARVIFLORUM		BRASSICACEAE	6?	SU	
TIARELLA TRIFOLIATA VAR TRIFOLIATA		SAXIFRAGACEAE	6575	S1S2	
TOFIELDIA PUSILLA	PHLIL1Y646		6465	SI	
TOWNSENDIA CONDENSATA		ASTERACEAE	6?	S1	
TOWNSENDIA FLORIFER		ASTERACEAE	6?	S1	
		ASTERACEAE	6?	S1S2	
TOWNSENDIA LEPTOTES		ASTERACEAE	6?	SU	
TOWNSENDIA SPATHULATA		ASTERACEAE	63	S2	3C
TRADESCANTIA BRACTEATA		COMMELINACEAE	6365	SU	•
TRIFOLIUM ERIOCEPHALUM SSP ARCUATUM	PDFAB400V1		6?	S1	
TRIFOLIUM GYMNOCARPON	PDFAB46116	FABACEAE	6?	SU	
TRIGLOCHIN CONCINNUM VAR DEBILE	PMSCHØ3Ø12	SCHEUCHZERIACEAE	G?T?	S2	
TRISETUM ORTHOCHAETUM	PMPDA69ØAØ	PDACEAE	6HQ	SISH	C2*
UTRICULARIA INTERMEDIA	PDLNTØ2ØAØ	LENTIBULARIACEAE	65	Si	
VACCINIUM MYRTILLOIDES	PDERI186M6	ERICACEAE	65	SI	
VERATRUM CALIFORNICUM	PML1L25020	LILIACEAE	65	SISU	
VERBESINA ENCELIOIDES	PDAST9RØ6Ø	ASTERACEAE	6?	SU	
VIBURNUM LENTAGO	PDCPRØ7ØBØ	CAPRIFOLIACEAE	65	SI	
VIOLA RENIFOLIA	PDVI0041V0	VIOLACEAE	65	SI	
WOLFFIA BRAZILIENSIS	PMLEMØ3Ø4Ø	LEHNACEAE	65	S1	
WOLFFIA COLUMBIANA	PHLEMØ3Ø3Ø	LENNACEAE	65	S2	
WYETHIA SCABRA VAR SCABRA	PDAST9XØE3	ASTERACEAE	6?	SI	
XYLORHIZA GLABRIUSCULA	PDASTA1030	ASTERACEAE	6365	Si	
ZIZIA AUREA	PDAP12F020	APIACEAE	65	SU	
ZOSTERELLA DUBIA	PMP0N96919	PONTEDERIACEAE	6?	51	